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## WHAT IS CLAIMED IS:

- A polygon mirror comprising a sintered body, wherein the 1. sintered body is formed from a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper.
- A polygon mirror according to claim 1, wherein the mixed 2. powder contains tin powder in the range of about 7 wt.% to 20 wt.%.
- A polygon mirror according to claim 1, wherein the mixed 3. powder contains nickel powder in the range of about 0.1 wt.% to 5 wt.%.
- A polygon mirror according to claim 1, wherein the weight 4. density of the sintered body is in the range of about 80% to 93% in ratio to pure copper.
- A polygon mirror according to claim 4, wherein the mixed 5. powder contains tin powder in the range of about 7 wt.% to 20 wt.%.
- A polygon mirror according to claim 4, wherein the mixed 6. powder contains nickel powder in the range of about 0.1 wt.% to 5 wt.%.
- A polygon mirror according to claim 4, wherein the weight 7. density of the sintered body is about 90% in ratio to pure copper. 25
  - A polygon mirror according to claim 7, wherein the mixed 8. powder contains about 10 wt.% in a tin powder and about 1.0 wt.% in a nickel powder.

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- 9. A polygon mirror according to claim 1, further comprising a protective film vacuum-vapor deposited on reflective surfaces of the polygon mirror.
- 10. A polygon mirror according to claim 1, wherein reflective surfaces of the polygon mirror have a higher reflective rate for laser light with wavelength of 700 nm or more, compared to that for laser light with wavelength of less than 700 nm.
  - 11. A polygon mirror comprising:

a base material;

a cylindrical member formed from a sintered material connected in a unitary structure to an outer circumference of the base material; and

a plurality of mirror-finished reflective surfaces provided on polygonal outer circumference surfaces of the cylindrical member;

wherein the sintered material is formed by firing a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper.

- 12. A polygon mirror according to claim 11, wherein the mixed powder contains tin powder in the range of about 7 wt.% to 20 wt.%.
- 13. A polygon mirror according to claim 11, wherein the mixed powder contains nickel powder in the range of about 0.1 wt.% to 5 wt.%.
- 14. A polygon mirror according to claim 11, wherein the sintered body has a weight density in the range of about 80% to 93% in ratio to pure copper.

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- 15. A polygon mirror according to claim 14, wherein the mixed powder contains tin powder in the range of about 7 wt.% to 20 wt.%.
- 16. A polygon mirror according to claim 14, further comprising a mixed powder that contains a nickel powder in the range of about 0.1 wt.% to 5 wt.%.
  - 17. A polygon mirror according to claim 14, wherein the weight density of the sintered body is about 90% in ratio to pure copper.
  - 18. A polygon mirror according to claim 17, wherein the mixed powder contains about 10 wt.% in tin powder and about 1.0 wt.% in nickel powder.
  - 19. A polygon mirror according to claim 11, wherein the base material is made of ceramic.
  - 20. A polygon mirror according to claim 11, further comprising a protective film vacuum-vapor deposited on reflective surfaces of the polygon mirror.
  - 21. A polygon mirror according to claim 11, wherein reflective surfaces of the polygon mirror have a higher reflective rate for laser light with wavelength of 700 nm or more, compared to that for laser light with wavelength of less than 700 nm.